TA-NR1

SERVICE MANUAL

US Model Germany Model



SPECIFICATIONS

Amplifier section

Type Pure A-class monaural power amplifier Circuitry Complementary Darlington SEPP with all

stages directly coupled

Power bandwidth (IHF)

5 Hz - 50 kHz (50 W output, 8 ohms, 0.1%

THD)

Overall output (20 Hz - 20 kHz)

200 W (4-ohm load, 0.08% THD) 100 W (8-ohm load, 0.05% THD)

Frequency response

5 Hz - 100 kHz ±3 dB

Input sensitivity

UNBALANCED: 1.1 V (47 kohms) BALANCED: 1.1 V (600 ohms)

Damping factor

50 (8 ohms, 1 kHz) Less than 30 μV

Residual noise I Signal-to-noise ratio

120 dB

Outputs SPEAKER terminals

Accepts speakers of 4 - 16 ohms.

General

Power requirements

1 20 V AC, 60 Hz (US model)

220 - 230 V AC, 50/60 Hz (Germany model)

Power consumption

300 W

Dimensions Approx. 466 x 188 x 462 mm (w/h/d)

 $(18^3/_8 \times 7^1/_2 \times 18^1/_4 \text{ inches})$

Weight Approx. 47.5 kg (104 lb 12 oz.)

Design and specifications subject to change without notice.



MONAURAL POWER AMPLIFIER
SONY

••

TABLE OF CONTENTS

Section	n		<u>T</u> .	itl	e					P	age
Servic	ing No	te ·	•••••								2
SECTI	ON 1.	GEN	ERAL			• • •	· • • •		•••		3
SECTION	ON 2.	DISA	ASSEMB	LY	·	• • • •			• •		5
SECTIO	ON 3.	ELE	CTRICA	L	ADJU	JST	MEN	ITS	•	٠.	7
SECTIO	ON 4.	DIA	GRAMS								
4-1.	Semio	onduc	ctor Lea	ad	Layou	ts ·	• • • •				8
4-2.	Circu	it Bo	oards Lo	oca	tion				• •		8
4-3.	Print	ed Wi	iring Bo	oar	ds ··	• • • •	• • • •		• • •		10
4-4.	Schem	atic	Diagram	n	• • • • •	• • • •	• • • •		• •		15
SECTIO	ON 5.	EXP	LODED	٧	IEWS		• • •				18
SECTION	ON 6.	ELE	CTRICA	۱L	PAR'	TS	LIST	•			22

SERVICING NOTE

- 1. For protection against scratching in the time of repair and maintenance inspection be sure to lay protective materials, such as a protection sheet, under the set.
- 2. Do not check the input transformer T1 for continuity. (If checked, the core will magnetized, deteriorating the sound quality.)
- 3. This set uses select component parts. For replacement of any part, a new genuine part must be used.
- 4. To prevent a secondary failure, the check of the drive stage, etc. should be made after the final stage has been removed.
- 5. When a stranded signal-core wire was removed for repair, it must be again wired as before the repair.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

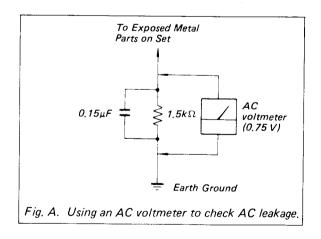
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



SECTION 1 GENERAL

1-1. LOCATION OF CONTROLS

This section is extracted from instruction manual.

Front Panel

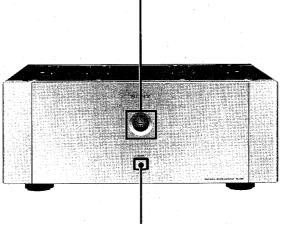
Display window

Protection indicator: Lights red when the POWER switch is turned ON and stays red for approximately 15 seconds. The red light indicates that the protection circuit is activated. The indicator lights green when the protection circuit is canceled and the amplifier is ready to operate. If the indicator changes from green to red while the unit is operating, the unit has encountered an abnormality and has activated the protection circuit. (When the protection circuit is activated, no sound is output to the speaker.) If this occurs, check to see if the SPEAKER terminals are short-circuited or if a DC voltage is being applied to the INPUT terminal.

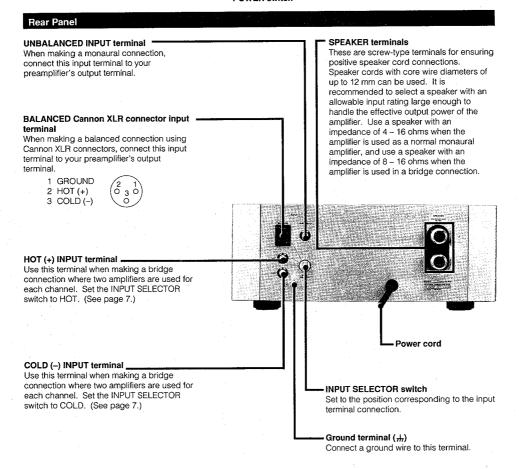
Temperature indicator: Indicates the internal temperature of the amplifier. Check the internal temperature to drive the amplifier in a good condition.

When the needle is in the C range: The amplifier's internal temperature is within the proper range.

When the needle is in the H range: The amplifier's internal temperature has exceeded the proper range. This occurs when the amplifier is used for a long period of time under severe operating conditions. If this happens, you should let the amplifier cool down by turning the power off for a while or moving it to a location which is better ventilated.



POWER switch



Left speaker

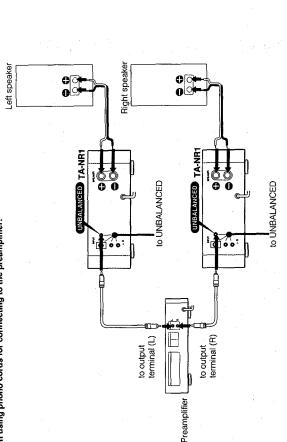
TA-NR1

TA-NR1

to COLD

1-2. CONNECTIONS

When using phono cords for connecting to the preamplifier:



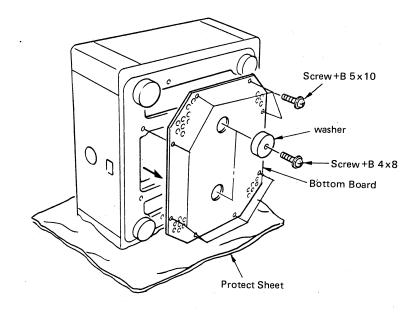
Large-diameter wire of same gauge as speaker cords Right speaker Large-diameter wire of same gauge as speaker cords TA-NE to COLD to HOT Preamplifier 음을 to output 니다 terminal 2 (L) to output terminal 1 (L) to output terminal 1 (R)

Right speaker Left speaker 0 TA-NR1 TA-NR1 100 to BALANCED to BALANCED When using balanced cables for connecting to the preamplifier: Cannon XLR to balanced connector to balanced Cannon XLR | output (R) Preamplifier

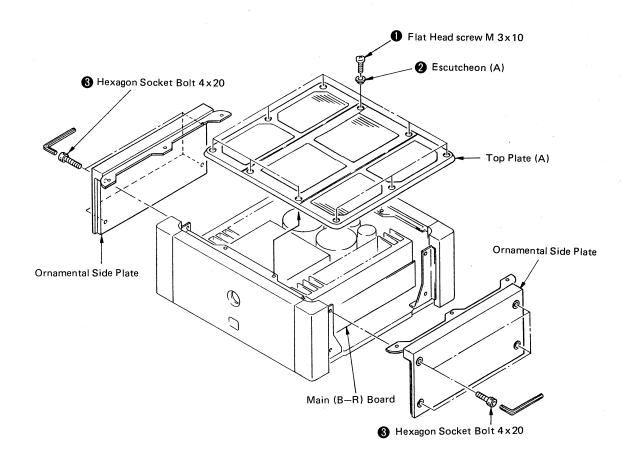
SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

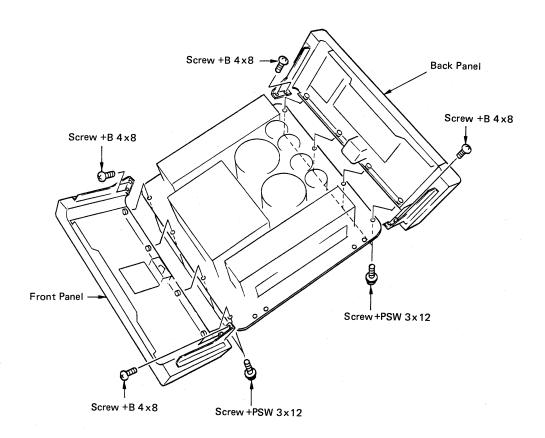
[PS BOARD, FUSE BOARD]



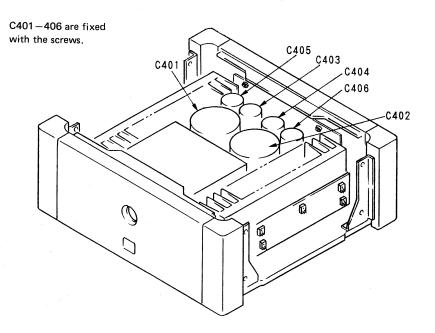
[MAIN (B-L)/(B-R) BOARD, IC BOARD]



[BACK PANEL SIDE: MAIN (A) BOARD, SP.TM BOARD]

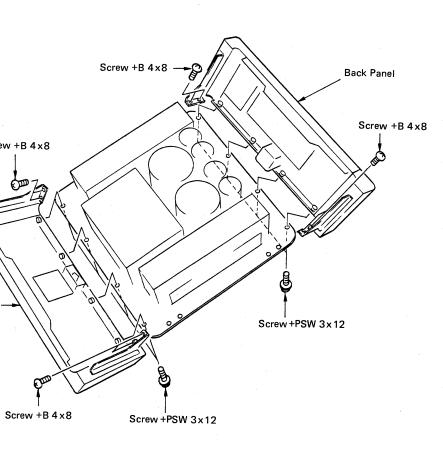


[LOCATION OF ELECTRICAL CAPACITOR (PS BOARD)]

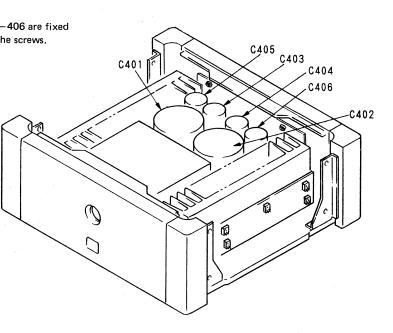


EL SIDE: DRIVE BOARD, LED (L)/(R) BOARD, METER]

L SIDE: MAIN (A) BOARD, SP.TM BOARD]



N OF ELECTRICAL CAPACITOR (PS BOARD)



SECTION 3 ELECTRICAL ADJUSTMENTS

• Precautions for adjustment.

- Before starting the adjustment, keep the unit powered for about 10 minutes under the conditions of no load and no signal.
- In the process of adjustment, heat dissipation should be taken into account with caution to protect the unit from direct wind blows. If not, the measurements may fluctuate.
- This adjustment must be made after such a major component as the final-stage transistor is replaced.

[IDLING CURRENT ADJUSTMENT]

Procedure:

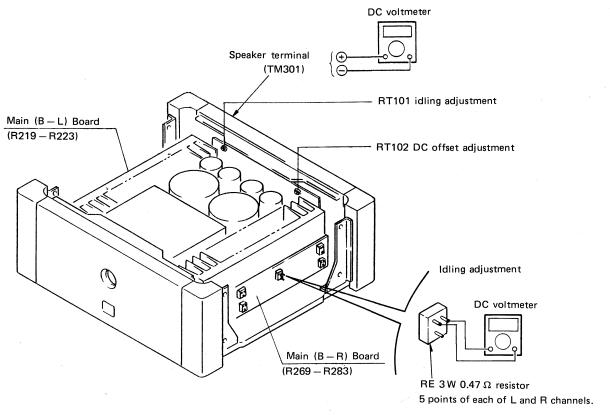
- 1. Connect a DC voltmeter (digital voltmeter) to respective leads of R219 to R223 and R269 to R273, and measure the voltage across each resistor.
- 2. Adjust RT101 so that the average of voltages at the above 10 places will be $0.15 \text{ V} (\pm 0.02 \text{ V})$.

[DC OFFSET ADJUSTMENT]

Procedure:

1. Connect the DC voltmeter to both terminals of the SP terminal (TM301), and adjust RT102 so that the indication of the DC voltmeter will become 0 V.

Adjustment positions:



4-1. SEMICONDUCTOR LEAD LAYOUTS

LM35DZ







M5F78M12











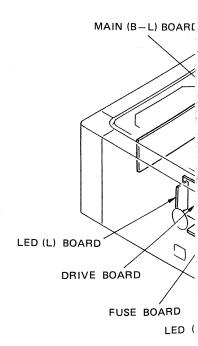
2SA1360





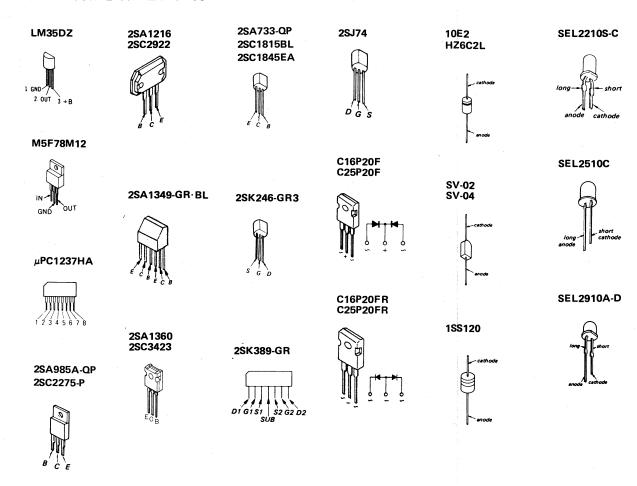


4-2. CIRCUIT BOARDS LOCATION

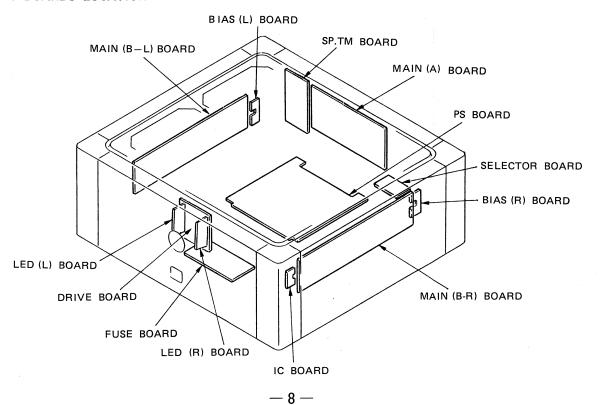


SECTION 4 DIAGRAMS

4-1. SEMICONDUCTOR LEAD LAYOUTS



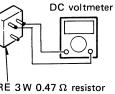
4-2. CIRCUIT BOARDS LOCATION



ling adjustment

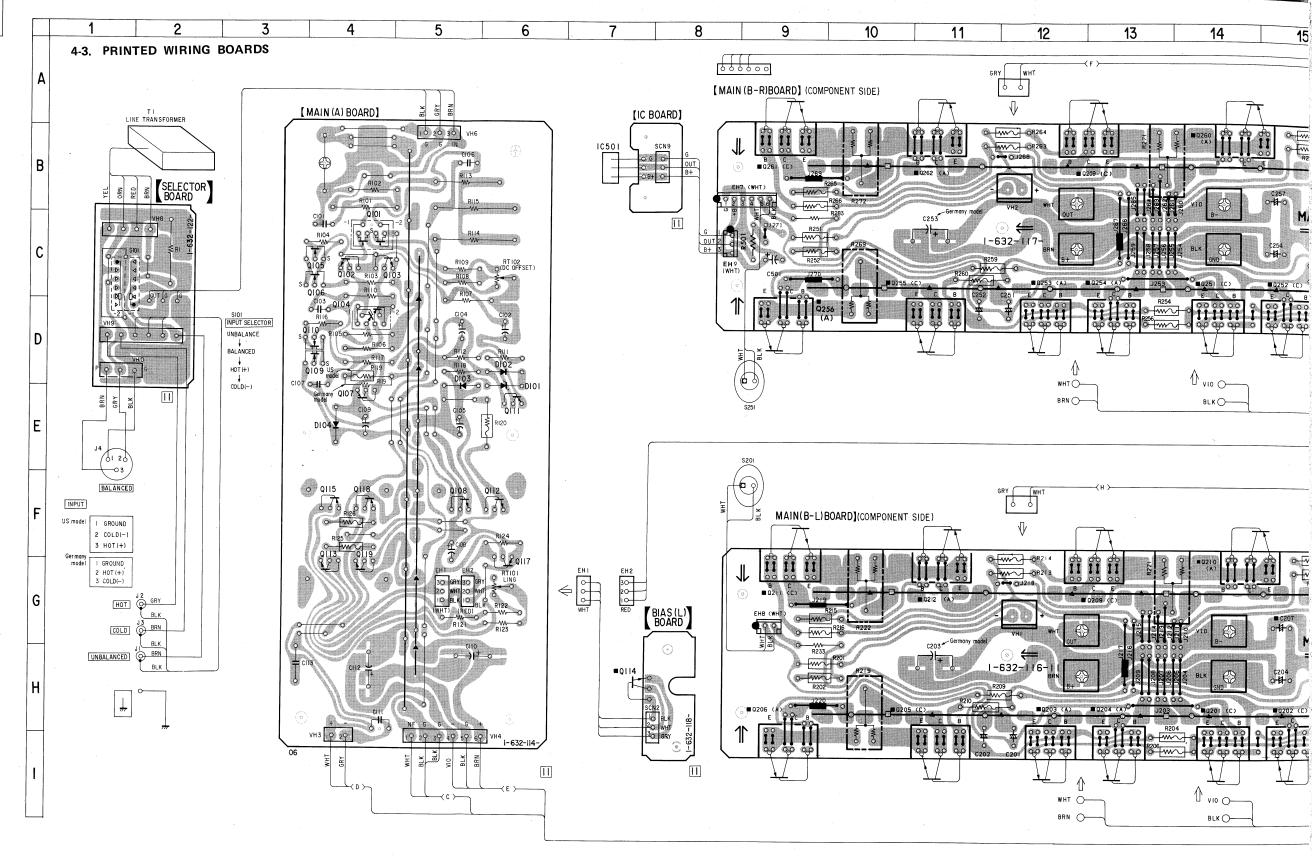
offset adjustment

, Idling adjustment



points of each of L and R channels.

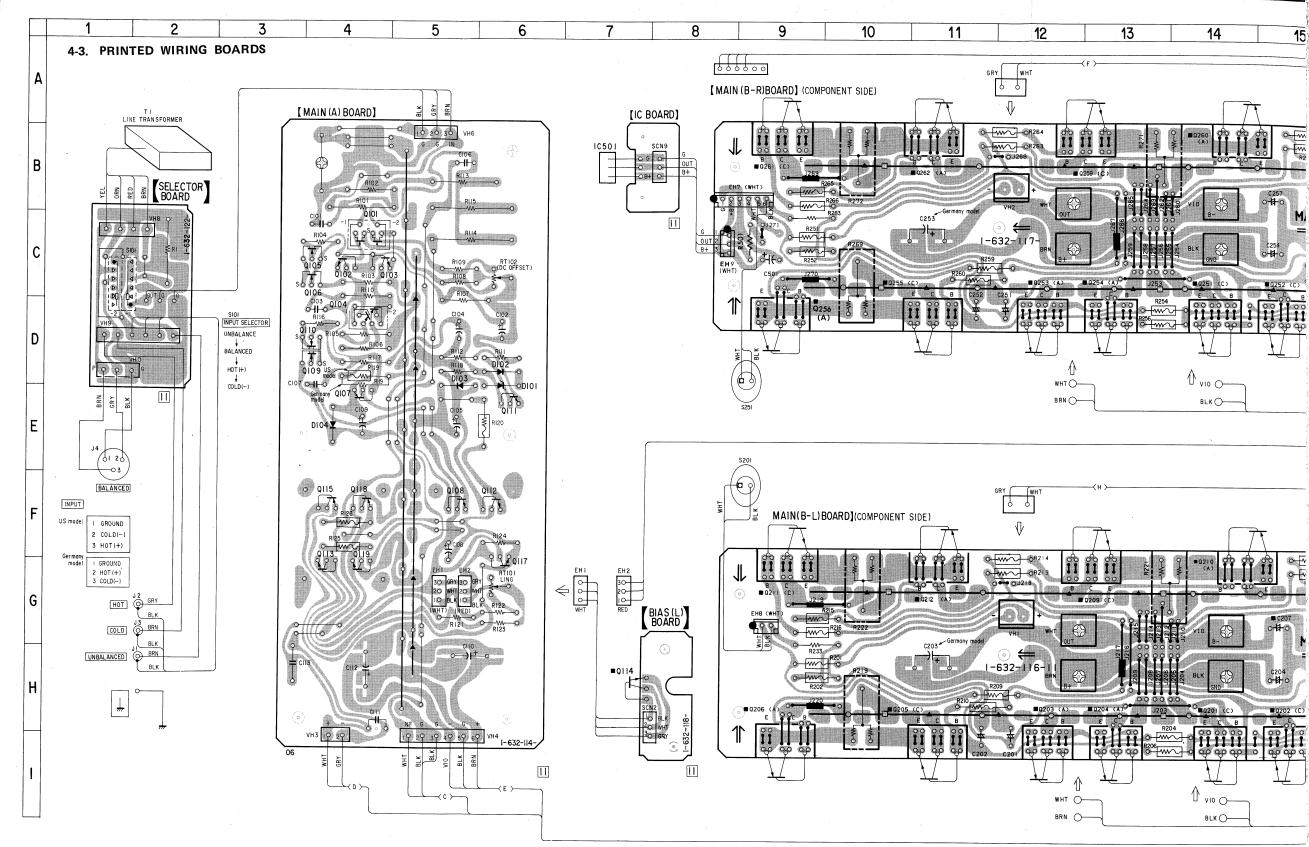




- -: parts extracted from the component side.
- Bus bar in use with the mark.

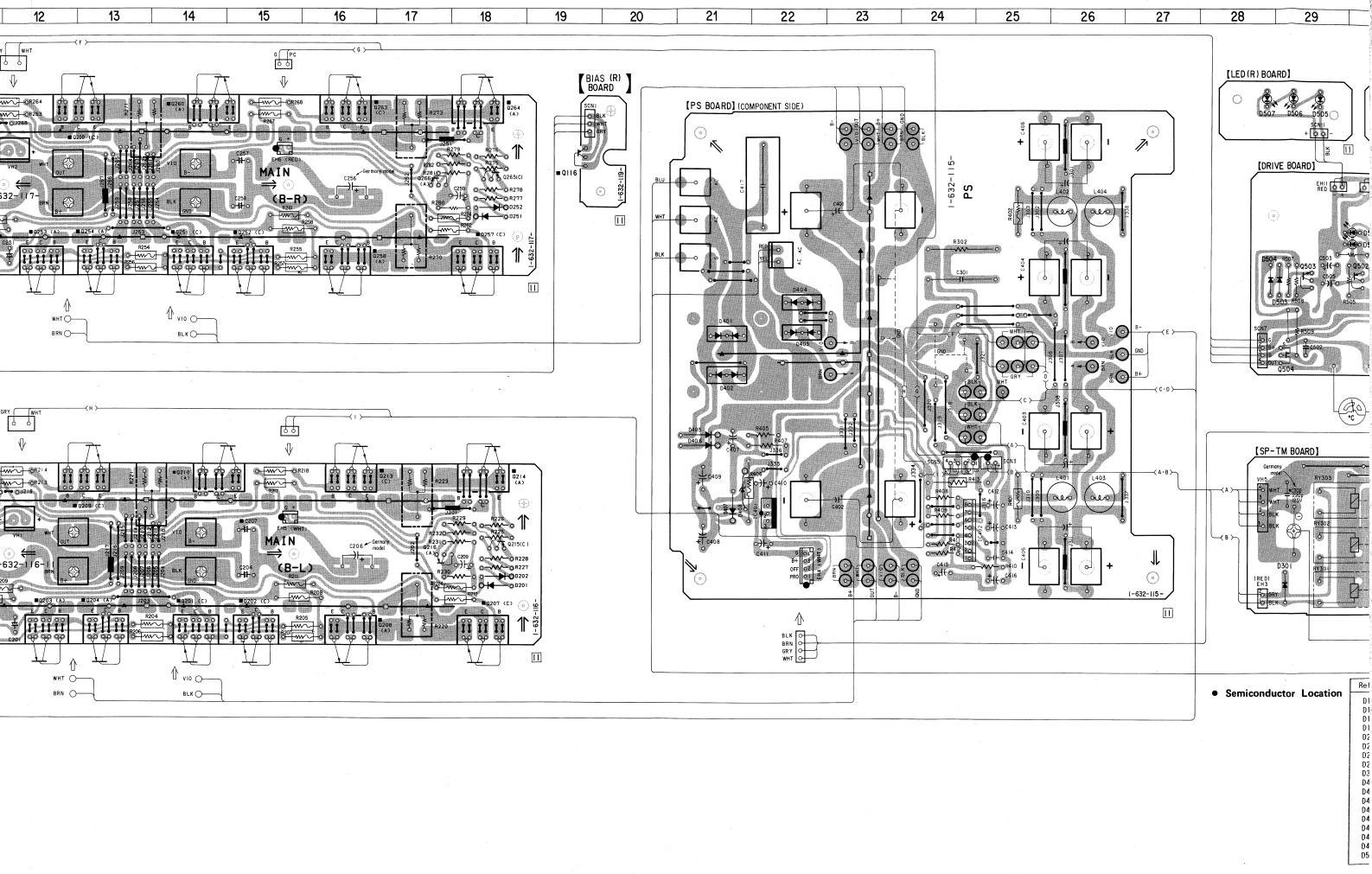
 - : B □ : CENTER VOLTAGE (OUTPUT)

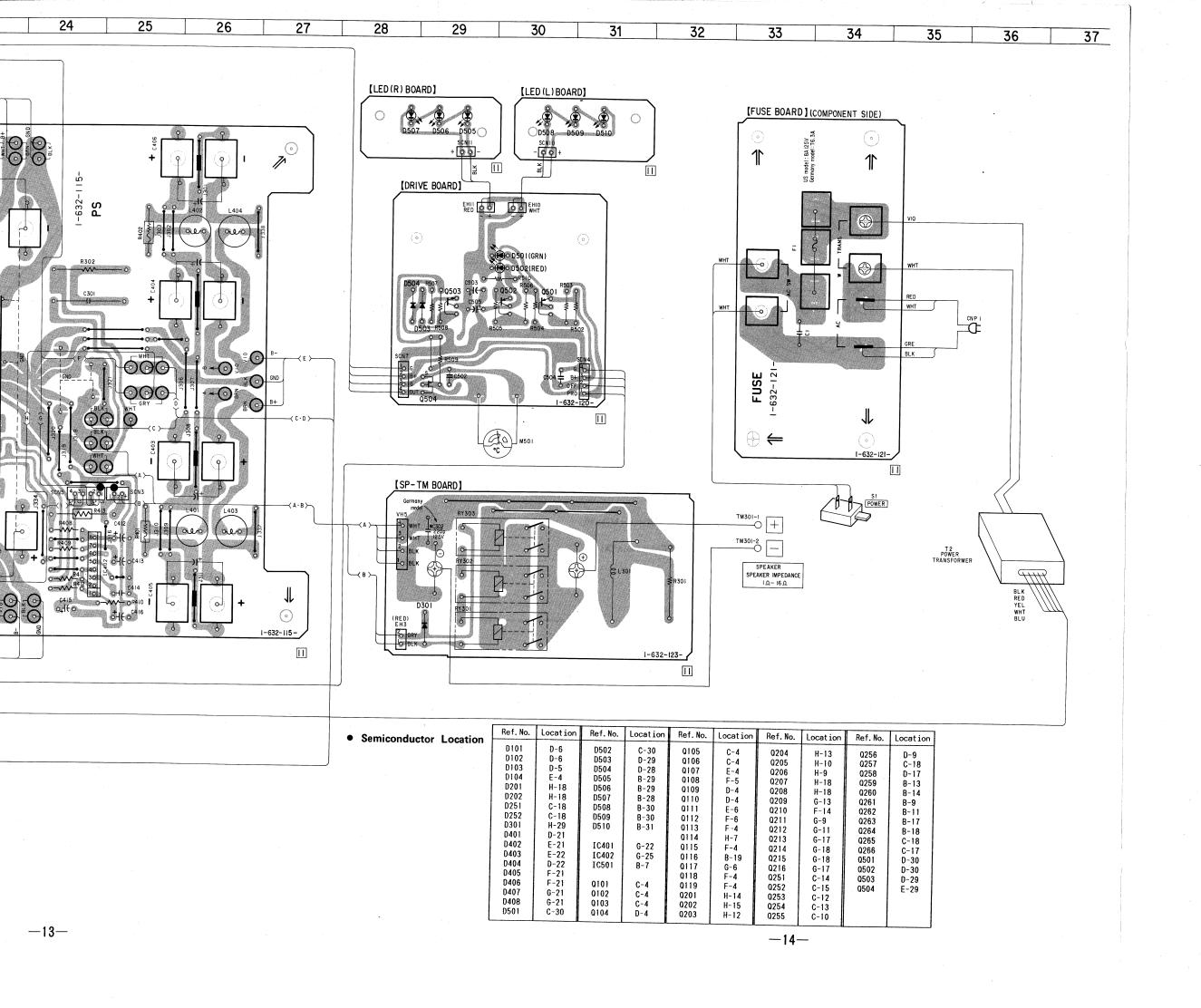


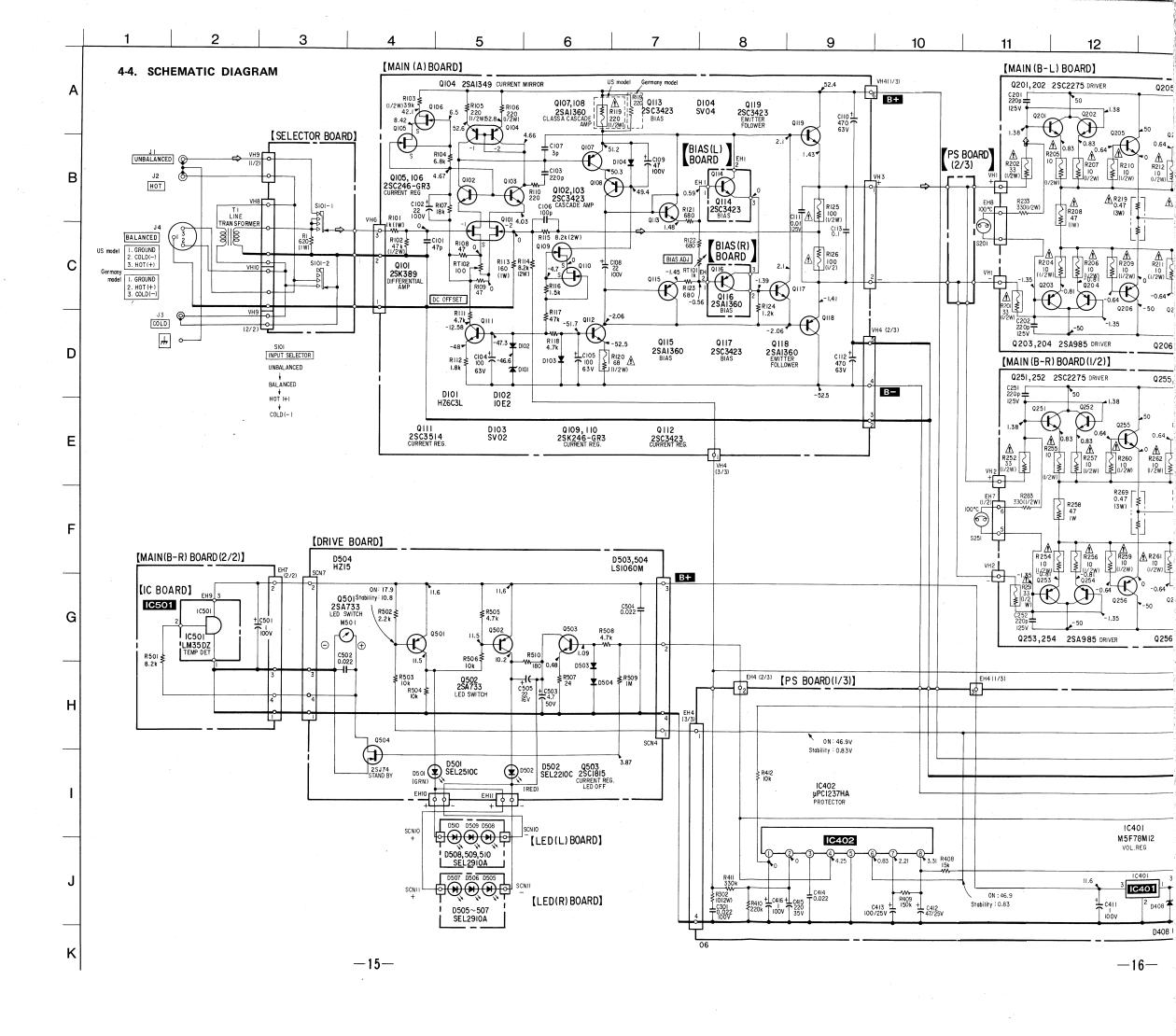


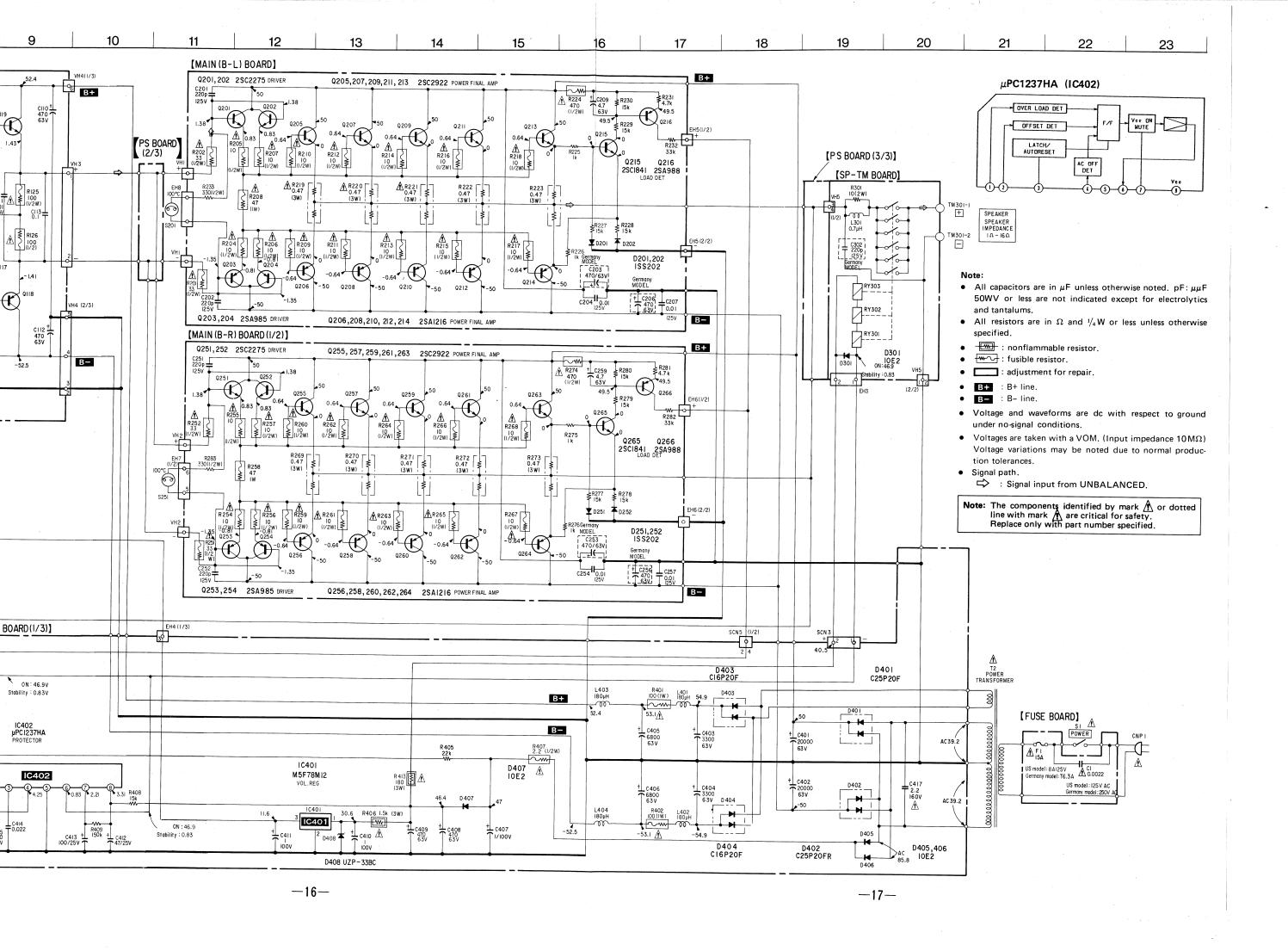
- -: parts extracted from the component side.
- Bus bar in use with the mark.

 - : B □ : CENTER VOLTAGE (OUTPUT)









TA-NR1

SECTION 5 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts

KNOB, BALANCE (WHITE) ... (RED) Cabinet's Parts

9-911-851-XX ABSORBENT, ACOUSTIC

4-874-614-11 SCREW (4) (3.5X14), TAPPING

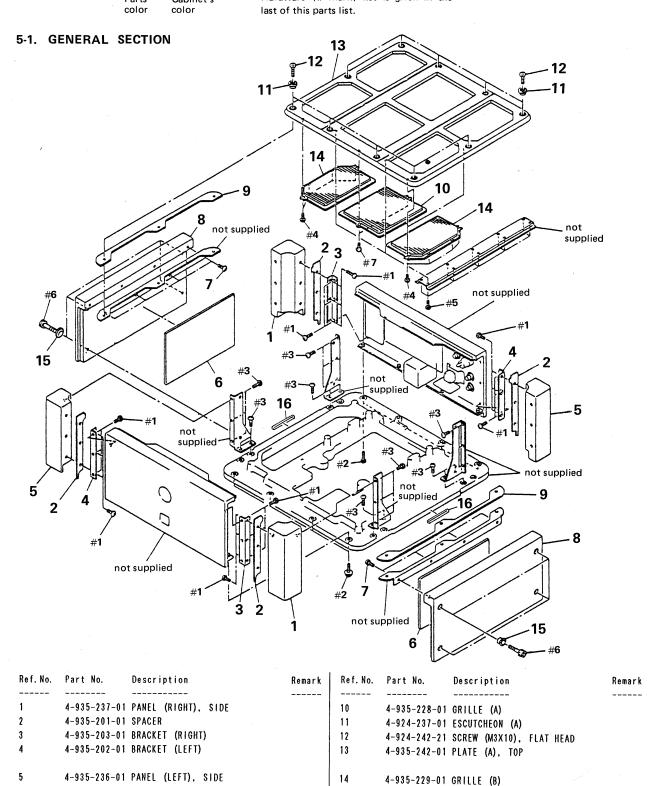
X-4935-204-1 PLATE ASSY, SIDE, ORNAMENTAL

4-935-232-01 PACKING (A). TOP PLATE (Germany) 4-935-232-11 PACKING (A), TOP PLATE (US)

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the

The components identified by mark A or dotted line with mark are critical for safety.

Replace only with part number specified.

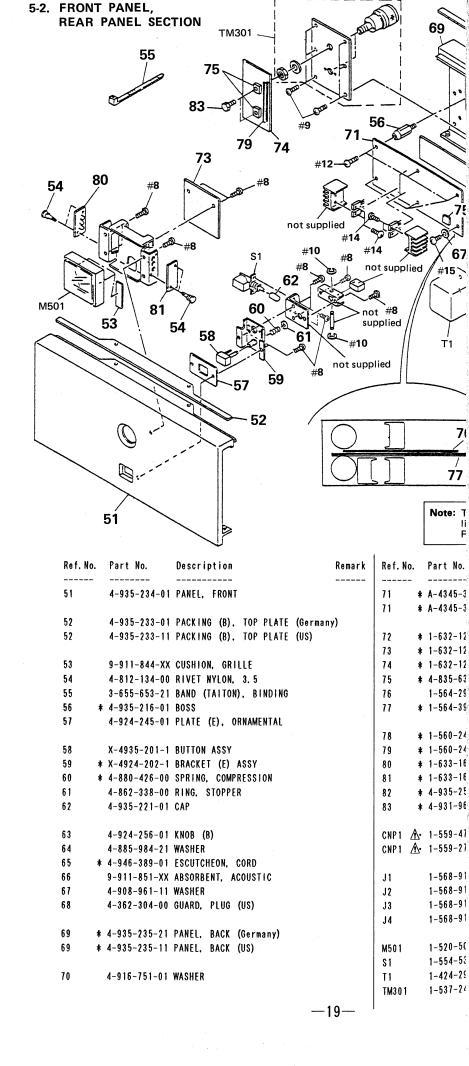


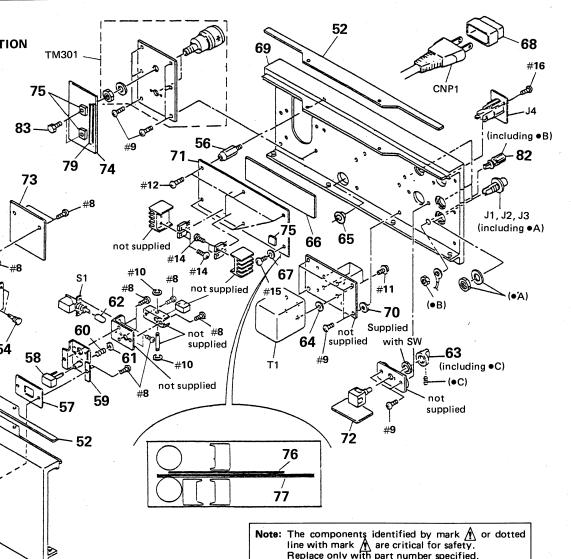
15

-18-

4-924-241-01 ESCUTCHEON (B)

9-911-840-XX CUSHION

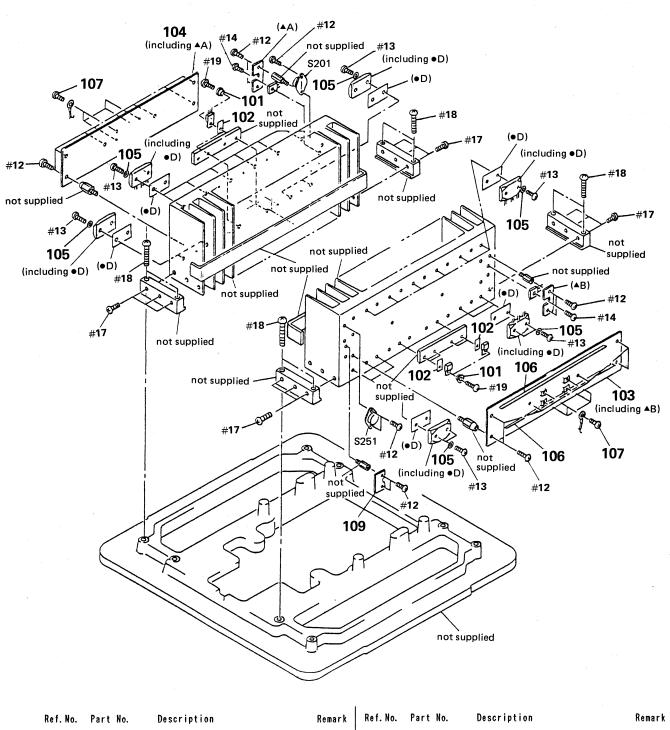




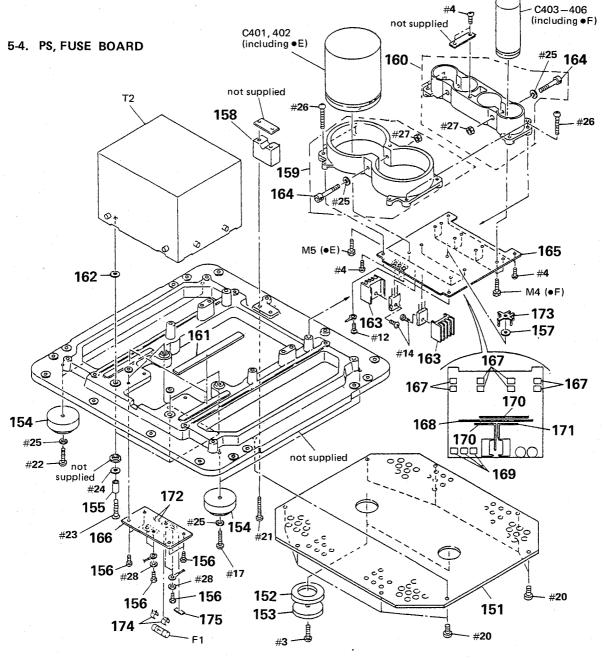
				Replace only with part number specified.									
Description	Remark	Ref. No		Part No.	Description	Remark							
PANEL, FRONT		71	*	A-4345-337-A	MAIN (A) BOARD, COMPLETE (US)								
		71	*	A-4345-353-A	MAIN (A) BOARD, COMPLETE (Germa	ny)							
PACKING (B), TOP PLATE (Ger	many)												
PACKING (B). TOP PLATE (US)		72	*	1-632-122-11	SELECTOR BOARD								
		73	*	1-632-120-11	DRIVE BOARD								
CUSHION, GRILLE		74	*	1-632-123-11	SP. TM BOARD								
RIVET NYLON, 3.5		75	*	4-835-639-00	PLATE, GROUND								
BAND (TAITON), BINDING		76		1-564-295-00	BAR, BUS								
BOSS		17	*	1-564-393-00	BUS BAR 9P								
PLATE (E), ORNAMENTAL													
		78	*	1-560-242-21	BUS BAR 4P								
BUTTON ASSY		79	*	1-560-242-11	BUS BAR 3P								
BRACKET (E) ASSY		80	*	1-633-166-11	LED (L) BOARD								
SPRING, COMPRESSION		81	*	1-633-167-11	LED (R) BOARD								
RING. STOPPER		82	*	4-935-253-01	TERMINAL, SP								
CAP		83	*	4-931-964-01	SCREW (M4X6)								
KNOB (B)		CNP1 2	<u></u> •	1-559-479-11	CORD, POWER (US)								
WASHER		CNP1 Z	Λ.	1-559-271-11	CORD, POWER (Germany)								
ESCUTCHEON, CORD													
ABSORBENT, ACOUSTIC		J1		1-568-918-11	JACK, PIN 1P (UNBALANCED)								
VASHER		J2		1-568-918-11	JACK, PIN 1P (HOT)								
GUARD, PLUG (US)		J3		1-568-918-11	JACK, PIN 1P (COLD)								
		J4		1-568-917-11	CONNECTOR, CANON (SOCKET) 3P (BA	LANCED)							
PANEL, BACK (Germany)													
PANEL, BACK (US)		M501		1-520-507-11	METER								
		S1		1-554-538-00	SWITCH, PUSH (AC POWER) (1 KEY)	(POWER)							

T1 1-424-299-11 TRANSFORMER, LINE
TM301 1-537-248-11 TERMINAL BORAD (SPEAKER 2P)

5-3. HEAT SINK SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	2-371-561-00	BUSHING (P), INSULATING		105	4-908-961-01	WASHER	
102	4-916-721-01	SHEET, INSULATING		106	1-565-063-11	BAR, BUS	
				107	* 4-931-964-01	SCREW (M4X6)	
103 4	k A-4345-340-A	MAIN (B-R) BOARD, COMPLETE	(US)	109	* 1-633-170-11	IC BOARD	
103 1	k A-4345-355-A	MAIN (B-R) BOARD, COMPLETE	(Germany)				
				\$201	1-576-080-11	THERMOSTAT	
104 #	A-4345-339-A	MAIN (B-L) BOARD, COMPLETE	(US)	\$251	1-576-080-11	THERMOSTAT	
104 #	A-4345-354-A	MAIN (B-L) BOARD, COMPLETE	(Germany)				



Ref. No.	Part No.	Description	Remark	Ref. No	o. Part No.	Description	Remark
151	4-935-240-01	BOARD, BOTTOM		171	* 1-560-242-21	BUS BAR 4P	
152	4-935-250-11	WASHER		172	1-535-476-11	TERMINAL	
153	4-935-252-01	WASHER		173	* 4-916-791-01	PLATE, GROUND 5P	
154	X-4924-207-1	FOOT ASSY		174	* 1-533-185-11	HOLDER, FUSE (US)	
				174.	1-533-183-11	HOLDER, FUSE (Germany)	
155	2-640-757-01	SPACER		175	3-701-947-19	LABEL (T6.3A), FUSE (Germany)	
156	4-931-964-01	SCREW (M4X6)					
157	3-555-872-21	SPACER		C401	1-125-583-11	CAP, ELECT 20000MF 63V	
158. 4	4-946-387-01	STOPPER, CORD		C402	1-125-583-11	CAP. ELECT 20000MF 63V	
159 4	X-4935-205-1	HOLDER (A) ASSY		C403	1-125-597-11	CAP. ELECT 3300MF 63V	
				C404	1-125-597-11	CAP, ELECT 3300MF 63V	
160 #	X-4935-206-1	HOLDER (B) ASSY		C405	1-125-581-11	CAP, ELECT 6800MF 63V	
161 #	4-935-249-01	ABSORBENT, VIBRATION		C406	1-125-581-11	CAP. ELECT 6800MF 63V	
162	4-935-250-01	WASHER					
163 #	4-921-402-01	HEAT SINK		F1	A • 1-532-510-00	FUSE, GLASS TUBE (8.0A) (US)	
164	4-946-777-01	BOLT (C4X55), HEXAGON SOCKET		F1 .	⚠· 1-532-325-00	FUSE, TIME-LAG (6.3A) (Germany)	
165 *	A-4345-075-A	PS BOARD, COMPLETE (Germany)		T2 ,	∆· 1-45 0- 4 90-11	TRANSFORMER. POWER (US)	
165 *	A-4345-338-A	PS BOARD, COMPLETE (US)		T2 .	<u> </u>	TRANSFORMER. POWER (Germany)	
166 *	1-632-121-11	FUSE BOARD			••		
167 *	4-835-639-00	PLATE, GROUND			Note: The comp	ponents identified by mark 🥂 o mark 🎪 are critical for safety.	r dotted
168	1-564-295-00	BAR, BUS		'	Replace o	only with part number specified.	
170 *	1-560-242-31	BUS BAR 4P	-21	\			

MAIN(A)

PS

BIAS (L)

BIAS (R)

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
 All resistors are in ohms
 METAL: Metal-film resistor
 METAL OXIDE: Metal Oxide-film resis
 - F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
 In each case, u: μ, for example:
 uA...: μA..., uPA...: μPA...,
 uPB...: μPB..., uPC...: μPC...,
 uPD...: μPD...
- CAPACITORS uF: μF
- COILS uH: μH

The components identified by mark or dotted line with mark are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board name.

	Part No.	Description			Remark	Ref. No.	Part No.	Descr	iption			Remark
*	 A-4345-337-A	MAIN (A) BOA	RD. COMPLET	E (US)		C402	1-125-583-1	CAP.	ELECT	20000MF		63V
*	A-4345-353-A	MAIN (A) BOA	RD. COMPLET	E (Germ	nany)	C403	1-125-597-1	CAP,	ELECT	3300MF		63V
		********	********	*****	****	C404	1-125-597-1	CAP,	ELECT	3300MF		63V
						C405	1-125-581-1	CAP.	ELECT	6800MF		63V
*	A-4345-075-A	PS BOARD, CO	MPLETE (Ger	many)		C406	1-125-581-11	CAP,	ELECT	6800MF		63V
	A-4345-338-A											
		********	******	****		C407	1-123-380-00	ELECT		1uF	20%	100V
						C408	1-126-066-11	ELECT		470uF	20%	63V
	1-535-730-21	LEAD, JUMPER	(OFC)			C409	1-126-066-11	ELECT	•	470uF	20%	63V
	1-535-731-21	LEAD, JUMPER	(OFC)			C410	1-123-380-00	ELEC1		1 u F	20%	100V
*	1-560-242-21	BUS BAR 4P				C411	1-123-380-00	ELECT	•	1uF	20%	100V
*	1-560-242-31	BUS BAR 5P										
	1-564-295-00					C412	1-124-910-11	ELECT		47uF	20%	50V
*	1-564-393-00	BUS BAR 9P				C413	1-124-122-11	ELECT		100uF	20%	50V
						C414	1-136-157-00	FILM		0. 022uF	5%	50V
*	3-555-872-21	SPACER				C415	1-124-484-11	ELECT		220uF	20%	35V
	4-835-639-00		D			C416	1-123-380-00	ELECT		1uF	20%	100V
*	4-916-791-01	PLATE, GROUN	D. 5P			C417 /	N 1-136-880-11	FILM		2. 2uF	10%	160V
	4-921-402-01						-					
	7-682-148-15	SCREW, TR						< 010	DE >			
		< CAPACITOR	>			D101	8-719-910-68	DIODE	HZ60	2L		
						D102	8-719-200-02	DIODE	10E2			
C101	1-104-322-11	POLYSTYRENE	47PF	10%	400V	D103	8-719-300-02	DIODE	SV-0	12		
102	1-124-748-11	ELECT	22uF	20%	100V	D104	8-719-300-04	DIODE	SV-0	4		
C103	1-104-233-00	POLYSTYRENE	220PF	10%	125V	D401	8-719-210-25	DIODE	C25P	20F		
104	1-124-130-00		100uF	20%	63V							
105	1-124-130-00	ELECT	100uF	20%	63V	D402	8-719-210-26	DIODE	C25P	20FR		
						D403	8-719-200-39	DIODE	C16P	20F		
106	1-104-269-11	POLYSTYRENE	100PF	10%	125V	D404	8-719-200-40	DIODE	C16P	20FR		
107	1-104-320-11	POLYSTYRENE	3PF	10%	400V	D405	8-719-200-02	DIODE	10E2	!		
108	1-124-748-11		22uF	20%	100V	D406	8-719-200-02	DIODE	10E2			
109	1-126-988-11	ELECT	47uF	20%	100V	1						
2110	1-125-580-11	ELECT	470uF	20%	63V	D407	8-719-200-02	DIODE	10E2			
						D408	8-719-016-18	DIODE	UZP-	33BC		
111	1-104-319-11	POLYSTYRENE	10000PF	10%	125V							
112	1-125-580-11	ELECT	470uF	20%	63V			< CON	NECTOR	>		
0113	1-130-321-00	FILM	0. 1uF	5%	100V							
301	1-136-944-11	FILM	0. 022uF	5%	0	EH1	* 1-564-506-11	PLUG,	CONNEC	TOR 3P		
2401	1-125-583-11		20000MF		63V	EH2	* 1-564-506-11	PLUG,	CONNEC	TOR 3P		
						EH4	* 1-564-507-11	PLUG.	CONNEC	TOR 4P		

MAIN(A)

PS BIAS (L) BIAS (R)

Ref. No.	Part No.	Description		Remark 	Ref. No.	Part No.	Description			Remark
		< 1C >			0254	8-729-141-10	TRANSISTOR	2SA985	A-QP	
					Q255	8-729-300-11	TRANSISTOR	2SC292	2	
IC401	8-759-604-39	IC M5F78M	12	*	0256	8-729-300-10	TRANSISTOR	2SA121	6	
IC402	8-759-111-68	IC uPC123	7HA		Q257	8-729-300-11	TRANSISTOR	280292	2	
					Q258	8-729-300-10	TRANSISTOR	2SA121	6	
		< COIL >			0055		TRANSFORM		•	
		0011 110 0	ODF 100		Q259	8-729-300-11		2SC292		
	1-422-203-11				0260	8-729-300-10		2SA121		
	1-422-203-11				0261	8-729-300-11		2SC292		
	1-422-203-11				0262	8-729-300-10		2SA121		
£404 *	1-422-203-11	CUIL, AIR-C	UKE 1800H		0263	8-729-300-11		280292		
		< TRANSISTO	RS		0264	8-729-300-10	TRANSISTOR	2SA121	6	
							< RESISTOR >		ı	
0101	8-729-203-21		25K389-GR				A188***	,		
0102	8-729-203-45		2803423		R101	1-259-676-11		1 K	2%	1W
Q103	8-729-203-45		2SC3423		R102	1-259-595-11		47K	1%	1/2W
Q104	8-729-232-00		2SA1349-GRBL		R103	1-249-711-11	CARBON	39K	5%	1/2W
0105	8-729-202-67	TRANSISTOR	2SK246GR3		R104	1-247-723-11		6. 8K	5%	1/4W
					R105	1-259-539-11	CARBON	220	1%	1/2W
0106	8-729-202-67		2SK246GR3							
Q107	8-729-209-17		2SA1360		R106	1-259-539-11	CARBON	220	1%	1/2W
Q108	8-729-209-17	TRANSISTOR	2SA1360		R107	1-259-585-11	CARBON	18K	1%	1/2W
Q109	8-729-202-67	TRANSISTOR	2SK246GR3		R108	1-249-520-11	CARBON	47	5%	1/4W
0110	8-729-202-67	TRANSISTOR	2SK246GR3		R109	1-249-520-11	CARBON	47	5%	1/4W
					R110	1-259-539-11		220	1%	1/2W
0111	8-729-104-18		2803514							
0112	8-729-203-45	-	2SC3423		R111	1-247-721-11		4. 7K	5%	1/4W
0113	8-729-203-45		2SC3423		R112	1-247-716-11	CARBON	1. 8K	5%	1/4W
Q114	8-729-203-45		2SC3423		R113	1-259-657-11	CARBON	160	2%	1W
0115	8-729-209-17	TRANSISTOR	2SA1360		R114	1-259-819-11	CARBON	8. 2K	2%	2W
0110	0 700 000 00	TD 1 NO 1 0	0011000		R115	1-259-819-11	CARBON	8. 2K	2%	2W
0116	8-729-209-17		25A1360				010000	4	F4.	4 / 412
0117	8-729-203-45		25C3423		R116	1-249-556-11		1. 5K	5%	1/4W
0118	8-729-209-17		2SA1360		R117	1-249-713-11		47K	5%	1/2W
Q119 Q201	8-729-203-45 8-729-127-53		2SC3423 2SC2275-P		R118	1-247-721-11	CARBON	4. 7K	5%	1/4W
4201	0-123-121-03	INMINOTOTUR	7907713L		R119	1-219-030-11	FUSIBLE	220	5%	1/2W (US)
Q202	8-729-127-53	TRANSISTOR	2SC2275-P		R119	1-259-539-11		220		1/2W (Germany
0203	8-729-141-10	TRANSISTOR	2SA985A-QP							
0204	8-729-141-10	TRANSISTOR	2SA985A-QP		R120 🗚	1-219-018-11	FUSIBLE	68	5%	1/2W
0205	8-729-300-11	TRANSISTOR	2802922		R121	1-247-711-11		680	5%	1/4W
0206	8-729-300-10		2SA1216		R122	1-247-711-11		680	5%	1/4W
					R123	1-247-711-11		680	5%	1/4W
0207	8-729-300-11	TRANSISTOR	2SC2922		R124	1-247-714-11		1. 2K	5%	1/4W
0208	8-729-300-10		2SA1216							
Q209	8-729-300-11		2802922	·	R125 ∕A	1-219-022-11	FUSIBLE	100	5%	1/2W
Q210	8-729-300-10		2SA1216			1-219-022-11		100	5%	1/2W
0211	8-729-300-11		2802922		R302	1-259-749-11		10	2%	2W.
					_	1-219-087-11		100	5%	1W.
Q212	8-729-300-10	TRANSISTOR	2SA1216		_	1-219-087-11		100	5%	1W
	8-729-300-11		2802922	.		1 . 2.0 001 11			V/V	***
	8-729-300-10		2SA1216		R405	1-249-462-11	CARRON	22K	5%	1/4W
	8-729-127-53		2SC2275-P			1-245-402-11		1. 5K	5%	3W F
	8-729-127-53		2SC2275-P			-			5% 5%	3W F 1/2W
	8-729-141-10		2SA985A-QP			1-217-981-11		2. 2		•
4540	0 123-141-10	INTROFOTOR	Z UNDOUNTUL		R408	1-249-460-11		15K	5%	1/4W
					R409	1-249-604-11	PAKRON	150K	5%	1/4W

Note: The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

Ref. No. Part No. Description Remark Ref. No. Ref. No. Part No. Description Remark Ref. No. Ref. No. Ref. No. Remark Ref. No. Ref. No. Ref. No. Ref. No. Ref. No. Remark Ref. No. Ref. No.	No. Part	 5-582-11	Descripelyst ELECT POLYST ELECT FILM ELECT CONDED DIODE DIODE DIODE DIODE DIODE	TYRENE TYRENE TYRENE TYRENE 1SS12: 1SS12: 1SS12:	10000PF 470uF 10000PF 4. 7uF 220PF 1uF 0. 022uF 4. 7uF 0. 022uF 22uF	20% 63% 10% 20% 63% 10% 20%	Remark / (Germany) 125V / (Germany) 125V 63V / (Germany) 100V 50V 50V 50V
R410 1-247-887-00 CARBON 220K 5% 1/4W C253 R411 1-247-891-00 CARBON 330K 5% 1/4W C254 R412 1-247-725-11 CARBON 10K 5% 1/4W C256 R413 A: 1-216-476-11 METAL OXIDE 180 5% 3W F C257 C259 <	1-12: 1-10: 1-10: 1-10: 1-10: 1-12: 1-13: 1-13: 1-12: 1-12: 8-71: 8-71: 8-71: 8-71: 8-71: 8-71: 8-71: 8-71: 8-71:	5-582-11 4-319-11 5-582-11 4-319-11 3-369-00 4-233-00 3-380-00 6-157-00 6-157-00 1-234-00 3-912-20 9-912-20 9-912-20	ELECT POLYST ELECT POLYST ELECT FILM ELECT C DIODE DIODE DIODE DIODE	TYRENE TYRENE TYRENE 15812: 15812: 15812:	10000PF 470uF 10000PF 4. 7uF 220PF 1uF 0. 022uF 4. 7uF 0. 022uF 22uF	10% 20% 63% 10% 20% 10% 125% 20% 5% 20% 5%	/ (Germany) 125V / (Germany) 125V 63V / (Germany) 100V 50V 50V
R410 1-247-887-00 CARBON 220K 5% 1/4W C254 R411 1-247-891-00 CARBON 330K 5% 1/4W C254 R412 1-247-725-11 CARBON 10K 5% 1/4W C256 R413 A: 1-216-476-11 METAL OXIDE 180 5% 3W F C257 C259	1-125 1-104 1-125 1-104 1-123 1-136 1-126 1-136 1-124 8-719 8-719 8-719 8-719	4-319-11 5-582-11 4-319-11 3-369-00 4-233-00 3-380-00 6-157-00 6-163-11 6-157-00 4-234-00 3-912-20 9-912-20 9-912-20	ELECT POLYST ELECT POLYST ELECT FILM ELECT FILM ELECT C DIODE DIODE DIODE DIODE	TYRENE TYRENE TYRENE 15812: 15812: 15812:	10000PF 470uF 10000PF 4. 7uF 220PF 1uF 0. 022uF 4. 7uF 0. 022uF 22uF	10% 20% 63% 10% 20% 10% 125% 20% 5% 20% 5%	/ (Germany) 125V / (Germany) 125V 63V / (Germany) 100V 50V 50V
R412 1-247-725-11 CARBON 10K 5% 1/4W C256 R413 A: 1-216-476-11 METAL OXIDE 180 5% 3W F C257 C259 C259 C259 C302 RT101 1-224-249-XX RES, ADJ. METAL GLAZE 1K C501 RT102 1-224-247-XX RES, ADJ. METAL GLAZE 1K C502 C503 C0NNECTOR > C302 C504 C505 VH3 1-564-320-00 PIN. CONNECTOR 2P VH4 * 1-564-243-00 PIN. CONNECTOR 6P VH6 * 1-564-104-00 PIN. CONNECTOR 3P ***********************************	1-125 1-104 1-123 1-136 1-136 1-136 1-124 8-719 8-719 8-719 8-719	5-582-11 4-319-11 3-369-00 4-233-00 3-380-00 6-157-00 6-163-11 6-157-00 4-234-00 3-912-20 9-912-20 9-912-20	POLYST ELECT FILM ELECT CONDED DIODE DIODE DIODE DIODE DIODE	TYRENE TYRENE 15812: 15812: 15812:	470uF 10000PF 4. 7uF 220PF 1uF 0. 022uF 4. 7uF 0. 022uF 22uF	20% 63% 10% 20% 10% 125% 20% 5% 20% 5%	/ (Germany) 125V 63V / (Germany) 100V 50V 50V
R413 A: 1-216-476-11 METAL OXIDE 180 5% 3W F C257 C259 C259 C259 C259 C259 C259 C259 C250 RT101 1-224-249-XX RES, ADJ. METAL GLAZE 1K C501 C502 C503 C504 C505 VH3 1-564-320-00 PIN. CONNECTOR 2P VH4 * 1-564-243-00 PIN. CONNECTOR 6P VH6 * 1-564-104-00 PIN. CONNECTOR 3P ***********************************	1-104 1-123 1-126 1-136 1-136 1-124 8-719 8-719 8-719 8-719	4-319-11 3-369-00 1-233-00 3-380-00 5-157-00 5-163-11 5-157-00 1-234-00 3-912-20 3-912-20 3-912-20	POLYST ELECT POLYST ELECT FILM ELECT COLORD DIODE DIODE DIODE DIODE DIODE	TYRENE TYRENE 15812: 15812: 15812:	10000PF 4. 7uF 220PF 1uF 0. 022uF 4. 7uF 0. 022uF 22uF	10% 20% 10% 125\ 20% 5% 20%	125V 63V /(Germany) 100V 50V 50V
C259 C302 RT101 1-224-249-XX RES, ADJ. METAL GLAZE 1K C501 RT102 1-224-247-XX RES, ADJ. METAL GLAZE 1R C503 C503 C0NNECTOR > C504 C505 VH3 1-564-320-00 PIN. CONNECTOR 2P VH4 * 1-564-243-00 PIN. CONNECTOR 6P VH6 * 1-564-104-00 PIN. CONNECTOR 3P ***********************************	1-123 1-104 1-123 1-136 1-126 1-124 8-719 8-719 8-719 8-719 8-719	3-369-00 1-233-00 3-380-00 5-157-00 5-163-11 6-157-00 1-234-00 3-912-20 3-912-20 3-912-20	POLYST ELECT FILM ELECT COLORD DIODE DIODE DIODE DIODE DIODE DIODE	DE > 18812: 1881	4. 7uF 220PF 1uF 0. 022uF 4. 7uF 0. 022uF 22uF	20% 10% 125\ 20% 5% 20% 5%	63V /(Germany) 100V 50V 50V 50V
C302 RT101 1-224-249-XX RES, ADJ. METAL GLAZE 1K C501 RT102 1-224-247-XX RES, ADJ. METAL GLAZE 1K C502 C503 C504 C505 VH3 1-564-320-00 PIN. CONNECTOR 2P VH4 * 1-564-243-00 PIN. CONNECTOR 6P VH6 * 1-564-104-00 PIN. CONNECTOR 3P ***********************************	1-104 1-123 1-136 1-126 1-136 1-124 8-719 8-719 8-719 8-719	1-233-00 3-380-00 5-157-00 6-163-11 6-157-00 1-234-00 3-912-20 3-912-20 3-912-20 3-912-20	POLYST ELECT FILM ELECT C DIODE DIODE DIODE DIODE DIODE	DE > 18812: 1881	220PF 1uF 0. 022uF 4. 7uF 0. 022uF 22uF	10% 125\ 20% 5% 20% 5%	/(Germany) 100V 50V 50V 50V
C302 RT101 1-224-249-XX RES, ADJ. METAL GLAZE 1K C501 RT102 1-224-247-XX RES, ADJ. METAL GLAZE 100 C503 C504 C505 VH3 1-564-320-00 PIN. CONNECTOR 2P VH4 * 1-564-243-00 PIN. CONNECTOR 6P VH6 * 1-564-104-00 PIN. CONNECTOR 3P ***********************************	1-123 1-136 1-126 1-136 1-124 8-719 8-719 8-719 8-719	3-380-00 6-157-00 6-163-11 6-157-00 1-234-00 3-912-20 3-912-20 3-912-20 3-912-20	ELECT FILM ELECT C DIOCE DIODE DIODE DIODE DIODE	DE > 18812 18812 18812	1uF 0. 022uF 4. 7uF 0. 022uF 22uF 0	20% 5% 20% 5%	100V 50V 50V 50V
RT101 1-224-249-XX RES. ADJ. METAL GLAZE 1K RT102 1-224-247-XX RES. ADJ. METAL GLAZE 100 C503 C504 C505 VH3 1-564-320-00 PIN. CONNECTOR 2P VH4 * 1-564-243-00 PIN. CONNECTOR 6P VH6 * 1-564-104-00 PIN. CONNECTOR 3P ***********************************	1-123 1-136 1-126 1-136 1-124 8-719 8-719 8-719 8-719	3-380-00 6-157-00 6-163-11 6-157-00 1-234-00 3-912-20 3-912-20 3-912-20 3-912-20	ELECT FILM ELECT C DIOCE DIODE DIODE DIODE DIODE	DE > 18812 18812 18812	1uF 0. 022uF 4. 7uF 0. 022uF 22uF 0	20% 5% 20% 5%	100V 50V 50V 50V
TT102 1-224-247-XX RES, ADJ, METAL GLAZE 100 C502 C503 C504 C505 C505	1-136 1-126 1-136 1-124 8-719 8-719 8-719 8-719	5-157-00 5-163-11 5-157-00 1-234-00 0-912-20 0-912-20 0-912-20 0-912-20	FILM ELECT FILM ELECT C DIODE DIODE DIODE DIODE DIODE	DE > 18812 18812 18812	0. 022uF 4. 7uF 0. 022uF 22uF 0	5% 20% 5%	50V 50V 50V
C503 C504 C505 VH3 1-564-320-00 PIN. CONNECTOR 2P VH4 * 1-564-243-00 PIN. CONNECTOR 6P VH6 * 1-564-104-00 PIN. CONNECTOR 3P ***********************************	8-719 8-719 8-719 8-719 8-719 8-719 8-719	6-163-11 6-157-00 1-234-00 9-912-20 9-912-20 9-912-20	ELECT FILM ELECT C DIODE DIODE DIODE DIODE DIODE	DE > 18812 18812 18812	4. 7uF 0. 022uF 22uF 0 0	20% 5%	50 V 50 V
C504 VH3	8-719 8-719 8-719 8-719 8-719 8-719	6-157-00 1-234-00 9-912-20 9-912-20 9-912-20	FILM ELECT < DIODE DIODE DIODE DIODE DIODE	DE > 18812 18812 18812	0. 022uF 22uF 0 0	5%	50V
VH3 1-564-320-00 PIN. CONNECTOR 2P VH4 * 1-564-243-00 PIN. CONNECTOR 6P VH6 * 1-564-104-00 PIN. CONNECTOR 3P ***********************************	8-719 8-719 8-719 8-719 8-719 8-719	1-234-00 3-912-20 3-912-20 3-912-20 3-912-20	COLORED DIODE DIODE DIODE DIODE	DE > 18812 18812 18812	22uF 0 0		
VH3 1-564-320-00 PIN. CONNECTOR 2P VH4 * 1-564-243-00 PIN. CONNECTOR 6P VH6 * 1-564-104-00 PIN. CONNECTOR 3P ###################################	8-719 8-719 8-719 8-719 8-719	9-912-20 9-912-20 9-912-20 9-912-20	< DIODE DIODE DIODE DIODE DIODE	DE > 18812 18812 18812	0 0	20%	16V
VH4	8-719 8-719 8-719 8-719	9-912-20 9-912-20 9-912-20	DIODE DIODE DIODE DIODE	18812 18812 18812	0		
VH6	8-719 8-719 8-719 8-719	9-912-20 9-912-20 9-912-20	DIODE DIODE DIODE DIODE	18812 18812 18812	0		
######################################	8-719 8-719 8-719 8-719	9-912-20 9-912-20 9-912-20	DIODE DIODE DIODE	18812 18812	0		
**************************************	8-719 8-719 8-719 8-719	9-912-20 9-912-20 9-912-20	DIODE DIODE DIODE	18812 18812	0		
* A-4345-340-A MAIN (B-R) BOARD, COMPLETE (US) * A-4345-355-A MAIN (B-R) BOARD, COMPLETE (Germany) * A-4345-339-A MAIN (B-L) BOARD, COMPLETE (US)	8-719 8-719 8-719)-912-20 }-912-20	DIODE DIODE	18812			
* A-4345-340-A MAIN (B-R) BOARD, COMPLETE (US) * A-4345-355-A MAIN (B-R) BOARD, COMPLETE (Germany) * A-4345-339-A MAIN (B-L) BOARD, COMPLETE (US)	8-719 8-719	9-912-20	DIODE		Λ		
* A-4345-355-A MAIN (B-R) BOARD, COMPLETE (Germany) * A-4345-339-A MAIN (B-L) BOARD, COMPLETE (US)	8-719 8-719			10010	v		
* A-4345-339-A MAIN (B-L) BOARD, COMPLETE (US)	8-719	0-200-02		18812	0		
			DIODE	10E-2			
* A-4345-354-A MAIN (B-L) BOARD, COMPLETE (Germany) D501	8-719	-303-00	DIODE	SEL25	10C		
**************************************		-301-38	DIODE	SEL22			
D503		-912-20		18812			
* 1-632-120-11 DRIVE BOARD D504		-912-20		18812			
*********** D505		1-301-61		SEL29			
* 1-632-121-11 FUSE BOARD	0 113	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DIVUL	ULLI	TVN U		
******** D506	8-710	-301-61	DIADE	SEI 20	10A-D		
* 1-632-122-11 SELECTOR BOARD D507)-301-61		SEL29			
**************************************		1-301-61 1-301-61		SEL29			
* 1-632-123-11 SP. TM BOARD D509		1-301-61		SEL29			
************ D510	8-719	1-301-61	DIVUE	SEL29	IVA-D		
* 1-633-166-11 LED (L) BOARD							
************			< CUNN	IECTOR >			
* 1-633-167-11 LED (R) BOARD			D1 110		AD AD		
**************************************				CONNECTO			
EH5				CONNECTO			
1-533-183-11 HOLDER, FUSE EH6				CONNECTO			
1-535-476-11 TERMINAL EH7				CONNECTO			
* 1-535-730-21 LEAD. JUMPER (OFC) EH8				CONNECTO			
* 1-560-242-11 BUS BAR 3P EH9				CONNECTO			
	* 1-564	-505-11	PLUG,	CONNECTO	OR 2P		
1-565-063-11 BAR. BUS							
* 4-835-639-00 PLATE, GROUND	,		< COIL	. >			
< CAPACITOR > L301	* 1-428	-071-11	COIL.	AIR-CORI	E 0. 7uH		
C1 1-161-742-00 CERAMIC 0.0022uF 20% 400V			< TRAN	ISISTOR:	>		
C201 1-104-233-00 POLYSTYRENE 220PF 10% 125V							
C202 1-104-233-00 POLYSTYRENE 220PF 10% 125V 0215	8-729	-184-53	TRANSI	STOR :	2SC1845-E	A	
C203 1-125-582-11 ELECT 470uF 20% 63V (Germany) Q216	8-729	-140-82	TRANSI	STOR	2SA988-PA	FAEA -	
C204 1-104-319-11 POLYSTYRENE 10000PF 10% 125V Q265	8-729	-184-53	TRANSI	STOR :	2SC1845-E	A ·	
0266	8-729	-140-82	TRANSI	STOR 2	2SA988-PA	FAEA	
C206 1-125-582-11 ELECT 470uF 20% 63V(Germany)							
C207 1-104-319-11 POLYSTYRENE 10000PF 10% 125V 0501	8-729	-141-03	TRANSI	STOR	2SA733-QP		
C209 1-123-369-00 ELECT 4. 7uF 20% 63V Q502	8-729	-141-03	TRANSI	STOR	2SA733-QP		
C251 1-104-233-00 POLYSTYRENE 220PF 10% 125V Q503		-281-54			2SC1815BL		
C252 1-104-233-00 POLYSTYRENE 220PF 10% 125V 0504		-200-95			2SJ74		

MAIN(B-R) MAIN(B-L) DRIVE

FUSE

SELECTOR

SP.TM

LED(L) LED(R)

Ref. N		Part No.	Description				Remark	Ref. N		Part No.	Description			Remark
	_		< RESISTOR >					R265	₩.	1-217-997-11	FUSIBLE	10 5%		2W
										1-217-997-11		10 5%		2W
		1-259-671-11		620	2%	1W				1-217-997-11		10 5%	1/	2W
R201	 .	1-219-010-11	FUSIBLE	33	5%	1/2W		R268	₩.	1-217-997-11	FUSIBLE	10 5%	1/	2W
		1-219-010-11		33	5%	1/2W								-
		1-217-997-11		10	5%	1/2W		R269		1-219-117-11	RES, WIREWOUND	(0.47+0	. 47 3W)
		1-217-997-11		10	5%	1/2W		R270			RES. WIREWOUND	-		•
11200	۳					.,		R271			RES. WIREWOUND			
D206	٨.	1-217-997-11	FIICIBLE	10	5%	1/2W		R272			RES. WIREWOUND	•		•
		1-217-997-11		10	5%	1/2W		R273			RES. WIREWOUND	-		
		1-219-079-11		47	5%	1W		nero		1 213 117 11	nco, minencono	(0. 4110	. 41 011	,
								D274	Α.	1 210 028 11	EHOLDI E	470 50	1/	้าน
		1-217-997-11		10	5%	1/2W			Ω.	1-219-038-11		470 5%		2W
K210	W.	1-217-997-11	LOSIBLE	10	5%	1/2W		R275		1-247-713-11		1K 5%		4W
								R276		1-247-713-11		1K 5%		4W
		1-217-997-11		10	5%	1/2W		R277		1-249-460-11		15K 5%		4W
		1-217-997-11		10		1/2W		R278		1-249-460-11	CARBON	15K 5%	1/	4W
		1-217-997-11		10	5%	1/2W								
R214	₩.	1-217-997-11	FUSIBLE	10	5%	1/2W		R279		1-249-460-11	CARBON	15K 5%	1/	4W
R215	₩.	1-217-997-11	FUSIBLE	10	5%	1/2W		R280		1-249-460-11	CARBON	15K 5%	1/	4W
								R281		1-247-721-11	CARBON	4. 7K 5%	1/	4W
R216	$\Psi \cdot$	1-217-997-11	FUSIBLE	10	5%	1/2W		R282		1-249-497-11	CARBON	33K 5%	1/	4W
R217	$\overline{\Lambda}$.	1-217-997-11	FUSIBLE	10	5%	1/2W		R283		1-249-661-11	CARBON	330 5%	1/	2W
		1-217-997-11		10	5%	1/2W								
R219			RES. WIREWOUND	(0. 4	17+0.47			R301	٨.	1-259-749-11	CARBON	10 2%	2 W	,
R220			RES, WIREWOUND					R501		1-249-945-11		8. 2K 1%		4W
11220		, 213 117 11	neo, minemoone	(0	,,,,,,	V 117		R502		1-247-717-11		2. 2K 5%		4W
R221		1 01011711	RES, WIREWOUND	· /o .	1710 47	วนก		R503		1-247-725-11		10K 5%		4W
			RES. WIREWOUND					R504		1-247-725-11		10K 5%		4W
R222								N 304		1-241-125-11	CANDUN	104 3/) (/	411
R223			RES, WIREWOUND					DEAL			040000	4 74 54		
R224		1-219-038-11		470		1/2W		R505		1-247-721-11		4. 7K 5%		4W
R225		1-247-713-11	CARBON	1 K	5%	1/4W		R506		1-247-725-11		10K 5%		
								R507		1-249-513-11		24 5%		4W
R226		1-247-713-11		1 K	5%	1/4W		R508		1-247-721-11		4. 7K 5%		4W -
R227		1-249-460-11	CARBON	15K		1/4W		R509		1-246-545-00		1. 0M 5%		4W
R228		1-249-460-11		15K	5%	1/4W		R510		1-247-703-11	CARBON	180 5%	5 1/	4W
R229		1-249-460-11	CARBON	15K	5%	1/4W								
R230		1-249-460-11	CARBON	15K	5%	1/4W					< RELAY >			
R231		1-247-721-11	CARBON	4. 7K	5%	1/4W		RY301		1-515-703-11	RELAY			
R232		1-249-497-11	CARBON	33K	5%	1/4W		RY302	•	1-515-703-11	RELAY			
R233		1-249-661-11	CARBON	330	5%	1/2W		RY303		1-515-703-11	RELAY			
R251	M٠	1-219-010-11	FUSIBLE	33	5%	1/2W								
		1-219-010-11		33	5%	1/2W	- 1				< SWITCH >			
							İ							
R254	Λ.	1-217-997-11	FUSIBLE	10	5%	1/2W	ĺ	\$101		1-572-074-11	SWITCH, ROTARY	(INPUT	SELECT	OR)
		1-217-997-11		10	5%	1/2W								•
	_	1-217-997-11		10	5%	1/2W					< CONNECTOR >			
		1-217-997-11		10	5%	1/2W					, connection /			
		1-217-997-11		47	5%	17 ZW		VH1		1_564_220.00	PIN. CONNECTOR	20		
nz Jō	\ <u>\</u> 17.	1-219-019-11	IUSIDEC	41	J 76	1 177								
2050	٨		FUOLDI F	10	F*/	1 /6111	į	VH2			PIN, CONNECTOR			
		1-217-997-11		10	5%	1/2W		VH8			PIN. CONNECTOR			
		1-217-997-11		10	5%	1/2W		VH9			PIN. CONNECTOR			
	-	1-217-997-11		10		1/2W		OTHV	*	1-564-104-00	PIN. CONNECTOR	3P		
		1-217-997-11		10		1/2W								
		1-217-997-11		10		1/2W								
R264	$\Psi \cdot$	1-217-997-11	FUSIBLE .	10	5%	1/2W								
							1							

Note: The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

IC

Ref. No.	Part No.	Description Remark	Ref. No.	Part No.	Description	Remark
*	1-633-170-11	IC BOARD		H	ARDWARE LIST	
		*****		**	**********	
		< 10 >	# 1		9 SCREW +B 4X6	
			# 2		9 SCREW +PSW 3X12	
10501	8-759-947-34	IC LM35DZ	# 3		9 SCREW +B 4X8	
		· · · · · · · · · · · · · · · · · · ·	. # 4		9 SCREW +BVTP 3X8 TYPE2 N-S	
******	********	*************			9 SCREW +P 3X5 TYPE2 NON-SLIT	
			# 6		4 BOLT. HEXAGON SOCKET 4X20	
		MISCELLANEOUS	# 7		9 SCREW +BVTP 3X6 TYPE2 N-S	
		******	# 8		9 SCREW +B 3X6	
			# 9		4 SCREW +B 4X10	
174		HOLDER, FUSE (US)	#10	7-624-105-0	4 STOP RING 2.3. TYPE -E	
		CORD, POWER (Germany)	-			
		CORD, POWER (US)	#11		9 SCREW +B 3X8	
		FUSE, TIME-LAG (6.3A) (Germany)	#12	7-682-147-1		
F1 <u></u> ♠∙	1-532-510-00	FUSE, GLASS TUBE (8. 0A) (US)	#13	7-682-552-0	4 SCREW +BVTT 3X16 (S)	
			#14	7-682-148-1	5 SCREW, TR	
J1		JACK, PIN 1P (UNBALANCED)	#15		5 SCREW, TR	
J2	1-568-918-11	JACK, PIN 1P (HOT)	#16		9 SCREW +RK 3X8	
J3		JACK, PIN 1P (COLD)	#17		9 SCREW +B 4X20	
J4	1-568-917-11	CONNECTOR, CANON (SOCKET) 3P (BALANCED			9 SCREW +B 5X25	
			#19		9 SCREW +B 3X14	
M501	1-520-507-11		#20	7-682-575-0	9 SCREW +B 5X10	
\$1	1-554-538-00	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)				
S201	1-576-080-11	THERMOSTAT	#21		9 SCREW +B 4X35	
\$251	1-576-080-11	THERMOSTAT	#22		9 SCREW +PSW 4X20	
			#23		9 SCREW +B 5X30	
T1		TRANSFORMER. LINE	#24		1 WASHER, PICTURE TUBE	
T2 ⚠ ·	1-450-490-11	TRANSFORMER, POWER (US)	#25		2 W 4. SMALL	
T2 △ ·	1-450-491-11	TRANSFORMER. POWER (Germany)	#26		9 SCREW +B 5X14	
TM301	1-537-248-11	TERMINAL BORAD (SPEAKER 2P)	#27		4 N 4, TYPE 2	
			#28	7-623-210-2	2 SW 4, TYPE 2	
******	*********	*****************	*			
				*		
		S & PACKING MATERIALS				
	*******	*****				
	2 702 450 01	INSTRUCTION (US)				

4-362-304-00 GUARD. PLUG * 4-935-245-01 CUSHION

* 4-945-283-01 INDIVIDUAL CARTON

Note: The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

3-751-053-11 MANUAL, INSTRUCTION (English, French,

3-751-053-21 MANUAL, INSTRUCTION (English) (US) 3-751-053-41 MANUAL, INSTRUCTION (German, Dutch,

Spanish, Portuguese) (Germany)

Swedish, Italian) (Germany)